

METHODS AND APPARATUS FOR RE-ESTABLISHING COMMUNICATION FOR A
WIRELESS COMMUNICATION DEVICE AFTER A COMMUNICATION LOSS
IN A WIRELESS COMMUNICATION NETWORK

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ABSTRACT OF THE DISCLOSURE

Several related methods and apparatus for re-establishing communication for a
wireless communication device after a communication loss between the wireless device
10 and a wireless communication network are disclosed. In one illustrative example, the
wireless network broadcasts identifiers of wireless devices associated with
communication losses in the wireless network over a control channel. After regaining
signal coverage, a wireless device monitors the control channel to decode and compare
each broadcasted identifier with an identifier of the wireless device. Based on a match
15 between a broadcasted identifier and the identifier of the wireless device, the wireless
device transmits a control message which informs the wireless network of the presence
of the wireless device. Otherwise, the wireless device normally refrains from
transmitting the control message to the wireless network. Advantageously,
communication with the wireless network is re-established (if at all necessary) without
20 overburdening the wireless link with unnecessary traffic.